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1. Document ID: DE 2012430 A DE 2012430 B

L4: Entry 1 of 1

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DERWENT-ACC-NO: 1971-64989S
DERWENT-WEEK: 197141
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TITLE: Oxidation-reduction catalysts production

PATENT-ASSIGNEE:

ASSIGNEE	CODE
TSCHERKASOV G P	TSCHI
TSCHERKASOW GP, JUSCHKINA	TSC I

PRIORITY-DATA: 1970DE-2012430 (March 16, 1970)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 2012430 A</u>			000	
<u>DE 2012430 B</u>	June 13, 1979		000	

INT-CL (IPC): B01J 11/32; B01J 23/78; C01B 1/18

ABSTRACTED-PUB-NO: DE 2012430A

BASIC-ABSTRACT:

Catalysts for oxidation-reduction reactions, esp. the reaction of CO with steam, are made by mixing conc. (35-80%) aq. solns. or melts of the nitrates and/or acetates of Mg, Al or elements in the Atomic Series Ca-Ga and Sr-Po, with solid carbonates, bicarbonates or hydroxides of the above elements, and/or solid oxalic acid, followed by ignition at 300-500 degrees C and pelletting.

Cr nitrate, when used, is replaced almost completely (99.9%) by solid CrO₃.

The spec. catalyst for reaction of CO with steam contains CuO 30-55, MgO 25-45, Al₂O₃ 2-30, and Cr₂O₃ or ZnO 0-30%.

The technique gives stronger and more active catalysts with simpler plant and procedure.

TITLE-TERMS: OXIDATION REDUCE CATALYST PRODUCE

DERWENT-CLASS: E37 J04

CPI-CODES: E31-N; E34-B; E34-C; E35-A; E35-C; E35-P; J04-A02;

CHEMICAL-CODES:

Chemical Indexing M3 *01*
Fragmentation Code

PATENT-ASSIGNEE:

ASSIGNEE	CODE
BASF AG	BADI

PRIORITY-DATA: 1994DE-4406788 (March 2, 1994)

PATENT-FAMILY:

PUB-NO <u>DE 19505347 A1</u>	PUB-DATE September 7, 1995	LANGUAGE	PAGES 005	MAIN-IPC B01J037/00
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APPLICATION-DATA:

PUB-NO DE 19505347A1	APPL-DATE February 17, 1995	APPL-NO 1995DE-1005347	DESCRIPTOR
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INT-CL (IPC): B01 J 37/00; B01 J 37/04; B01 J 37/08

ABSTRACTED-PUB-NO: DE 19505347A

BASIC-ABSTRACT:

Catalyst tablets are made by adding 1-10 wt.% metal powder or metal alloy powder to the pyrogenic catalytic material. The powder has a grain size of 20-500 mum and the tablets are formed by compaction at 0-180 deg.C.

ADVANTAGE - The produced tablets have a high mechanical strength without having to pre-reduce the additive material.

TITLE-TERMS: PRODUCE CATALYST TABLET INCREASE MECHANICAL STRENGTH COMPRISE ADD METAL POWDER METAL ALLOY POWDER PYROGENIC CATALYST MATERIAL

DERWENT-CLASS: J04 M22

CPI-CODES: J04-A05; J04-E04; M22-H03A; M22-H03G; N06-E;

CHEMICAL-CODES:

Chemical Indexing M3 *01*
Fragmentation Code
M411 M730 M903 Q421 R038

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-139106

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